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comprising:

a fifth step of recording, onto the recording medium, (i) reproduction start time of the partial AV data, and (ii) correspondence information of the partial AV data and the partial associated data, both of which are disposed in the first continuous region.

3. The method as set forth in claim 1, further comprising:

a sixth step of recording, onto the recording medium, information indicating whether or not the partial associated data is recorded adjacent to the corresponding partial AV data.

4. (Amended) A method for recording, onto a recording medium, (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be synchronized with the AV data,

the method comprising:

a first step of dividing the AV data into partial AV data in accordance with a predetermined interval;

a second step of securing a first continuous region including a series of the partial AV data and a second region for securing, during recording of the associated

data, a region for storing the associated data corresponding to the partial AV data; and

a third step of recording, onto the recording medium, file system management information for (i) managing the partial AV data and the second region as different files, and (ii) managing information for handling the partial AV data and the second region as different files.

5. (Amended) The method as set forth in claim 4, further comprising:

a fifth step of dividing, during the recording of the associated data, the associated data into partial associated data in accordance with a predetermined interval;

a sixth step of recording, during the recording of the associated data, the partial associated data onto the second region that is stored in continuity with relevant partial AV data; and

a seventh step of recording, onto the recording medium during the recording of the associated data, file system management information for (i) managing the partial associated data as a file different from respective files of the partial AV data and the second region, and (ii) managing information for handling the partial associated

ART 19.

- 79 -

data as a file different from respective files of the partial AV data and the second region.

6. The method as set forth in claim 4, further comprising:

an eighth step of recording, onto the recording medium, (i) reproduction start time of the partial AV data, and (ii) correspondence information of the partial AV data and the partial associated data, both of which are disposed in the first continuous region.

7. The method as set forth in claim 4, further comprising:

a ninth step of recording, onto the recording medium, information indicating whether or not the partial associated data is recorded adjacent to the corresponding partial AV data.

8. An AV data recording apparatus for recording, onto a recording medium, (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be synchronized with the AV data,

the AV recording apparatus, comprising:

means for dividing the AV data into partial AV data

and for dividing the associated data into partial associated data, in accordance with a predetermined interval;

means for securing, in the recording medium, a first continuous region for continuously storing the partial AV data and the partial associated data;

means for continuously recording a series of the partial AV data and the partial associated data onto the first continuous region; and

means for recording, onto the recording medium, file system management information for (i) managing the partial AV data and the partial associated data as different files, and (ii) managing information for handling the partial AV data and the partial associated data as different files.

9. (Amended) An AV data recording apparatus for recording, onto a recording medium, (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be synchronized with the AV data,

the AV data recording apparatus comprising:

means for dividing the AV data into partial AV data in accordance with a predetermined interval;

means for securing a first continuous region

including a second region for securing, during recording of the associated data, a region for storing the associated data corresponding to the partial AV data; and

means for recording, onto the recording medium, file system management information for (i) managing the partial AV data and the second region as different files, and (ii) managing information for handling the partial AV data and the second region as different files.

10. (Amended) The AV data recording apparatus as set forth in claim 9, further comprising:

means for dividing, during the recording of the associated data, the associated data into partial associated data in accordance with a predetermined interval;

means for recording, during the recording of the associated data, the partial associated data onto the second region that is stored in continuity with relevant partial AV data; and

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means for recording, onto the recording medium during the recording of the associated data, file system management information for (i) managing the partial associated data as a file different from respective files of the partial AV data and the second region, and (ii) managing information for handling the partial associated

data as a file different from respective files of the partial AV data and the second region.

11. A data recording medium for storing (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be synchronized with the AV data,

wherein:

the data recording medium continuously stores (i) partial AV data obtained by dividing the AV data in accordance with a predetermined interval, and (ii) partial associated data obtained by dividing the associated data in accordance with a predetermined interval; and

the data recording medium stores file system management information for (i) managing the partial AV data and the partial associated data as different files, and (ii) managing information for handling the partial AV data and the partial associated data as different files.

12. A program for causing a computer to recording, onto a recording medium, (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be synchronized with the AV data,

the program causing the computer to perform:

a first step of dividing the AV data into partial AV data and of dividing the associated data into partial associated data, in accordance with a predetermined interval;

a second step of securing, in the recording medium, a first continuous region for continuously storing the partial AV data and the partial associated data;

a third step of continuously recording the partial AV data and the partial associated data onto the first continuous region; and

a fourth step of recording, onto the recording medium, file system management information for (i) managing the partial AV data and the partial associated data as different files, and (ii) managing information for handling the partial AV data and the partial associated data as different files.

13. (Amended) A program for causing a computer to record, onto a recording medium, (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be synchronized with the AV data,

the program causing the computer to perform:

a first step of dividing the AV data into partial AV data in



accordance with a predetermined interval;

a second step of securing a first continuous region including a second region for securing, during recording of the associated data, a region for storing the associated data corresponding to the partial AV data; and

a fourth step of recording, onto the recording medium, file system management information for (i) managing the partial AV data and the second region as different files, and (ii) managing information for handling the partial AV data and the second region as different files.

14. A recording medium for storing the program as set forth in claim 12 or 13.

15. (Added) The method as set forth in claim 4, further comprising:

a tenth step of recording, during the recording of the associated data, the associated data onto the second region that is stored in continuity with relevant partial AV data; and

an eleventh step of recording, onto the recording medium during the recording of the associated data, file system management information for (i) managing the associated data as a file different from respective files of

the partial AV data and the second region, and (ii) managing information for handling the associated data as a file different from respective files of the partial AV data and the second region.

16. (Added) The method as set forth in claim 4, wherein:

upon the creation of the second region, a size of the second region is determined in consideration of occurrence of a defect.

17. (Added) The AV data recording apparatus as set forth in claim 9, comprising:

means for recording the associated data onto the second region that is stored in continuity with relevant partial AV data; and

means for recording, onto the recording medium during the recording of the associated data, file system management information for (i) managing the associated data as a file different from respective files of the partial AV data and the second region, and (ii) managing information for handling the associated data as a file different from respective files of the partial AV data and the second region.

18. (Added) A data recording medium that can store (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be synchronized with the AV data,

wherein:

the AV data is divided into partial AV data in accordance with a predetermined interval;

the AV data is recorded such that a series of the partial AV data is positioned in continuity with a second region for securing a region for storing associated data corresponding to the partial AV data;

the data recording medium stores file system management information for (i) managing the partial AV data and the second region as different files, and (ii) managing information for handling the partial AV data and the second region as different files.